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## ON DENSITY OF A STABLE UNIFORMLY CONVEX NORM

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Abstract: Let  $(E, \|\cdot\|)$  be a uniformly convex Banach space and assume that its modulus of uniform convexity  $\alpha(\cdot)$  satisfies the condition:  $\alpha(\varepsilon) \ge const \cdot \varepsilon^n$ ,  $n \in N$ . We prove that for every stable symmetric measure  $\mu$  on E the density of the distribution function  $F_z(t) = \mu\{\|\cdot+z\| < t\}, z \in E$  is bounded on every interval (0, T), T > 0. Under some additional assumptions we extend the conclusion to the whole half-line  $(0, \infty)$ .

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